

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/029,344
Applicant : Thomas L. Dings
Filed : December 28, 2001
T.C./A.U. : 2185
Examiner : Not Yet Assigned

Confirmation No.: 5511

Docket No. : EMC-046PUS (EMC-00-068)
Customer No. : 022494

Certificate of Mailing (37 C.F.R. 1.8(a))

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first-class mail in an envelope addressed to: Commissioner for Patents, P. O. Box 1450, Alexandria, VA 22313-1450 on the date set forth below.

24 May 04
Date of Signature
and Mail Deposit

By: Paul D. Durkee

Paul D. Durkee
Reg. No. 41,003

RECEIVED

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

MAY 28 2004

Technology Center 2100

REVOCATION OF POWER AND APPOINTMENT OF NEW POWER OF ATTORNEY

Sir:

EMC Corporation, having a principal office at 176 South Street, Hopkinton, Massachusetts 01748, represents that it is the owner of record of all title, right and interest in the above-identified patent application by virtue of an assignment dated December 28, 2001, which is enclosed herewith. Assignee has reviewed the evidentiary documents pertaining to the rights of Assignee to take this action and certifies that, to the best of Assignee's knowledge and belief, title to the above-identified patent application is in Assignee.

The undersigned, whose title is supplied below, is empowered to act and authorized to execute this document on behalf of the Assignee and hereby revokes all previous powers in the above-identified application and respectfully requests the appointment of:

John M. Gunther	Reg. No. 26,175
Leanne J. Fitzgerald	Reg. No. 40,606
Krishnendu Gupta	Reg. No. 37,977
Penelope S. Wilson	Reg. No. 29,751
William R. Clark	Reg. No. 29,523
Robert Kevin Perkins	Reg. No. 36,634
Scott A. Ouellette	Reg. No. 38,573

all of EMC Corporation, 176 South Street, Hopkinton, MA 01748, and

Christopher S. Daly	Reg. No. 37,303
Judith C. Crowley	Reg. No. 35,091
Donald F. Mofford	Reg. No. 33,740
Paul D. Durkee	Reg. No. 41,003
Richard M. Sharkansky	Reg. No. 25,800
Kermit Robinson	Reg. No. 48,734

all of Daly, Crowley & Mofford, LLP, 275 Turnpike Street, Suite 101, Canton, Massachusetts 02021-2310, jointly, and each of them severally, my attorneys at law, with full power of substitution, delegation and revocation, to prosecute this application, to make alterations and amendments therein, to receive the patent, and to transact all business in the Patent and Trademark Office connected therewith.

Please direct all telephone calls and address all correspondence to:

Paul D. Durkee
Daly, Crowley & Mofford, LLP
275 Turnpike Street, Suite 101
Canton, Massachusetts 02021-2310
Telephone no. (781) 401-9988 x21
Facsimile: (781) 401-9966
pdd@dc-m.com

The Commissioner is hereby authorized to charge any other fees under 37 C.F.R. §1.16 and §1.17 that may be required, or credit any overpayment, to our Deposit Account No. 50-0845.

Respectfully submitted,

May 19, 2004
Date

Respectfully submitted,

EMC Corporation

Robert K. Perkins
Robert Kevin Perkins, Esq. (Reg. No. 36,634)
EMC Corporation
176 South Street
Hopkinton, MA 01748

Daly, Crowley & Mofford, LLP
275 Turnpike Street – Suite 101
Canton, MA 02021-2310
Telephone: (781) 401-9988
Facsimile: (781) 401-9966

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FEBRUARY 26, 2002

PTAS

Chief Information Officer
Washington, DC 20231
www.uspto.gov

PILLSBURY WINTHROP LLP
ANTHONY L. MIELE
INTELLECTUAL PROPERTY GROUP
1600 TYSONS BOULEVARD
MCLEAN, VA 22102



101937937A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 12/28/2001

REEL/FRAME: 012420/0789
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:
DINGS, THOMAS L.

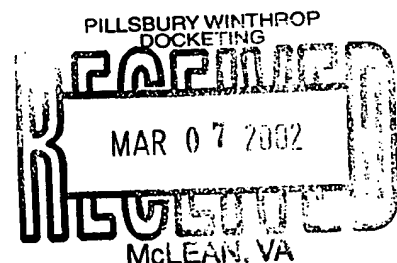
DOC DATE: 12/28/2001

ASSIGNEE:
EMC CORPORATION
35 PARKWOOD DRIVE
HOPKINTON, MASSACHUSETTS 01748

SERIAL NUMBER: 10029344
PATENT NUMBER:

FILING DATE: 12/28/2001
ISSUE DATE:

SHARON LATIMER, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS



BOX ASSIGNMENTS



01-09-2002

DO NOT USE FOR TRADEMARKS



Y

TO THE ASSISTANT COMMISSIONER

SIR: PLEASE RECORD THE ATTACHED DOCUMENT FOR THE REOF.

1. NAME OF CONVEYING PARTY(IES) (ASSIGNORS(S)):

1. Thomas L. DINGS

3.

5.

7.

2.

4.

6.

8.

RECEIVED

MAY 28 2004

ADDITIONAL NAME(S) OF CONVEYING PARTY(IES) ATTACHED? ☐ YES ☒ NO Technology Center 2100

2. PARTY(IES) (ASSIGNEE(S)) RECEIVING INTEREST:

NAME: EMC Corporation

ADDRESS: 35 Parkwood Drive, Hopkinton, Massachusetts 01748

ADDITIONAL NAME(S) & ADDRESS(ES) ATTACHED? ☐ YES ☒ NO

3. NATURE OF CONVEYANCE (DOCUMENT):

(Submit herewith only one document for recordation—multiple copies of same Assignment signed by different inventors is one document)

☒ ASSIGNMENT OF ☒ WHOLE ☐ PART INTEREST
☐ ORIGINAL ☒ FACSIMILE/PHOTOCOPY
☐ CHANGE OF NAME ☐ VERIFIED TRANSLATION
☐ SECURITY ☐ MERGER ☐ OTHER:

EXEC. DATE: December 28, 2001

EXECUTION DATE(S) ON THE DECLARATION IF FILED HERewith: (NOTE: IF DATES ON DECLARATION AND ASSIGNMENT DIFFER SEE ATTY!) DECEMBER 28, 2001

4.5 APPL. NO.(S) OR PAT NO.(S). OTHERS ON ADDITIONAL SHEET(S) attached? ☐ YES ☒ NO

A. PAT. APP. NO.(S) series code/serial no	M#	1 st INVENTOR if not in item 1	B. PATENT NO.(S)	M#	1 st INVENTOR if not in item 1
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NEW APPLICATION 280213

5. Name & Address of Party to Whom Correspondence
Concerning Document Should be Mailed:

Pillsbury Winthrop LLP
 Intellectual Property Group
 1600 Tysons Boulevard
 McLean, VA 22102

6. NUMBER INVOLVED:

APPLNS 1 + PATS 0 = TOTAL 17. AMOUNT OF FEE ENCLOSED: (Code 581)
ABOVE TOTAL x \$40 = \$40.00

5.5 ATTY DKT:

PMS 280213

EMC-00-068

8. IF ABOVE FEE IS MISSING OR INADEQUATE CHARGE
INSUFFICIENCY TO DEPOSIT ACCOUNT NUMBER: 03-3975

UNDER ORDER NO 23501

280213

MATTER NO.

CLIENT REF.

dup. sheet not required

CLIENT NO.

MATTER NO.

9. STATEMENT AND SIGNATURE.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Signature

 10. Total number of pages including this
cover sheet, attachments and document
(do not file dup. Cover sheet)

3

Attorney: Anthony L. Miele

Reg. No. 34393

Date: December 28, 2001

Atty/Sec: ALM/sdm

TEL: (703) 905-2146

FAX: (703) 905-2500

01/02/2002 HLE333 00000006 10029344

02 FC:581

40.00 DP

FILE WITH PTO RETURN RECEIPT (PAT-103A)

PATENT/Sole Assignment
Attorney Docket No.: EMC-00-068

ASSIGNMENT

WHEREAS, I, Thomas L. Dings, have invented an invention comprising and/or embodying certain improvements or discoveries or both as described in an application for Letters Patent of the United States entitled *MANAGEMENT OF FILE EXTENT MAPPING TO HASTEN MIRROR BREAKING IN FILE LEVEL MIRRORED BACKUPS*, the specification of which:

- ☒ is being executed on even date herewith and is about to be filed in the United States Patent Office;
- ☐ was filed on _____ as U.S. Application No. _____;
- ☐ was patented under U.S. Patent No. _____ on _____.

WHEREAS, EMC Corporation (hereinafter "ASSIGNEE"), a corporation organized and existing under the laws of the Commonwealth of Massachusetts and having a usual place of business at 35 Parkwood Drive, Hopkinton, Massachusetts 01748 desires to acquire an interest therein in accordance with agreements duly entered into with us;

NOW, THEREFORE, to all whom it may concern be it known that for and in consideration of said agreements and of other good and valuable consideration, the receipt of which is hereby acknowledged, I have sold, assigned and transferred and by these presents do hereby sell, assign and transfer unto said ASSIGNEE, its successors, assigns and legal representatives, the entire right, title and interest in and throughout the United States of America, its territories and all foreign countries, in and to said invention as described in said application, together with the entire right, title and interest in and to said application and such Letters Patent as may issue thereon; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by me had this assignment and sale not been made; I hereby convey to ASSIGNEE all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. I hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein;

AND, I hereby further agree for me and my executors and administrators to execute upon request any other lawful documents and likewise to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements and the giving of

PATENT/Sole Assignment
Attorney Docket No.: EMC-00-068

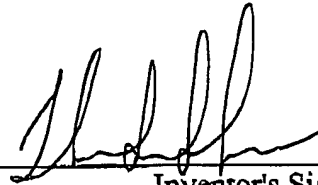
-2-

testimony in any interference or other proceeding in which said invention or any application or patent directed thereto may be involved;

AND, I do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed my seal as set forth below:

Date: 12/28/2001



Inventor's Signature

Print full name of sole inventor:

Thomas L. Dings

Residence:

3 Whirly Circle, Hopkinton, MA 01748

Citizenship:

USA

Mailing Address:

3 Whirly Circle, Hopkinton, MA 01748

STATE/Commonwealth of
COUNTY OFMassachusetts
Middlesex

Then personally appeared before me the above-named Thomas L. Dings and acknowledged that he executed the foregoing instrument as his free act and deed this 28 day of December, 2001.



Notary Public

Print Name:

My Commission expires

